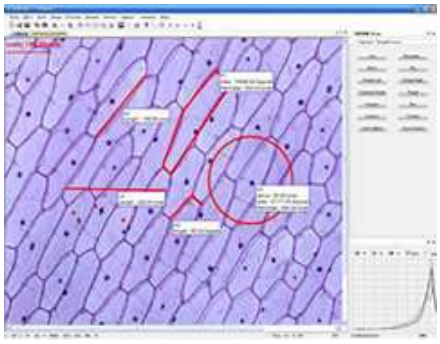
PD-3428 Digital Biological Microscope

Link to PC

PD-3428



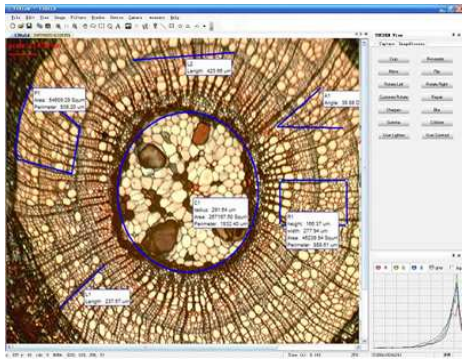
Capture and Measure

Optical System	Infinity Optical System
Viewing head	Binocular measuring tube 45 °, angle 360 °rotation . Interpupillary distance: 55~75 mm
Total Magnification	40X, 100X, 400X, 1000X
Eye piece	WF10X (ψ22mm)
Camera System	CMOS Chip, 1.3 Mega Pixel
Objective	Infinity Plan Objective: ∞ PL 4X/0.10 ∞ PL 10X/0.25 ∞ PL 40X/0.65 (S) ∞ PL 100X/1.25 (S)(Oil)
Stage	Double layers mechanical stage Stage size: 180mm × 150mm Moving range: 75mm × 50mm
Focusing	Coaxial coarse & fine focusing adjustment with rack and pinion mechanism Fine focusing scale Value 0.002mm
Condenser	NA1.25 Abbe Condenser with Iris Diaphragm and Filter, Rack & Pinion Adjustment
Illumination	6V20W Built-in brightness Variable
Software	Photo snap, Video record. With measure function of the actual length/area/diameter/circumference/angle/point of object.

PD-2520 / PD-2510 Digital Biological Microscope

PD-2510

PD-2520



Capture and Measure

Items Number	PD-2510	PD-2520
Viewing head	Monocular measuring tube 45 °, angle 360 ° rotation.	Binocular measuring tube 45 °, angle 360 ° rotation. Interpupillary distance: 55~75 mm
Total Magnification	40X, 100X, 400X, 1000X	
Eye piece	WF10X (ψ20mm)	
Camera System	CMOS Chip, 1.3 Mega Pixel	
Objective	Achromatic Objective Achromatic 4X/0.10 Achromatic 10X/0.25 Achromatic 40X/0.65 (S) Achromatic 100X/1.25 (S)(Oil)	
Stage	Double layers mechanical stage Stage size: 130mm × 120mm Moving range: 70mm × 30mm	
Focusing	Coaxial coarse & fine focusing adjustment with rack and pinion mechanism Fine focusing scale Value 0.002mm	
Condenser	NA1.25 Abbe Condenser with Iris Diaphragm and Filter, Rack & Pinion Adjustment	
Illumination	6V20W Built-in brightness Variable	
Software	Photo snap, Video record. With measure function of the actual length/area/diameter/circumference/angle/point of object.	

PDM-60 LCD Digital Microscope

Portable Case

PDM-60

Accessories

Viewing Head	Monocular tube, inclined at 45˚, with built-in 3.6” LCD Microscope Camera, can switch to WF 10X/16X eyepiece.
Camera System	LCD: 3.6” TFT LCD Sensor: 2.0 Mega Pixel CMOS Function: Live viewing, Photograph(JPEG), Video recording (AVI) Memory Card: S.D. Optical Magnification / Digital Zoom: 10X/8X Language Option: English, Chinese, Japanese, Spanish, German, French, Italian, Portuguese Output: TV (PAL and NTSC), PC(USB 2.0)
Eyepiece	WF10X, WF16X
Objective	Achromate Objective: 4X, 10X, 40X(S)
Stage	Metal stage with horizontal slide clip, X-Y moving range 50mm X 30mm
Filter	6 Colors Wheel filter: Blue, Yellow, Green, Light Green, Purple, Transparency
Illumination	High brightness Vertical and transmitted LED light, brightness variable
Power	AC 100V~240V or Two AA Batteries
Accessories	1. Microtome 2. Slide Storage Box included 5 prepared slide specimens and 5 slides. 3. Specimen Hatchery 4. Four vials of Sea Sault, Shrimp eggs, Yeast and Gum. 5. Metal Forces 6. Two AA Batteries 7. Power Adapter 8. Dust Cover 9. Portable Microscope Case

MD SERIES – MD-20M

LCD ELECTRONIC EYEPIECE

Side view: SD

MD-20M

Link to PC/TV

The MD-20M LCD Electronic Eyepiece is to be used in traditional microscope. By replacing eyepiece or connecting C-Mount with this LCD module, you can view specimens or objects on the LCD screen which are easy to see and to share the view with others. You can take snapshots or short videos with the flash memory or SD card. Also you can connect with PC or TV set for live viewing. The MD-20M LCD Electronic Eyepiece is composed of optical system, image sensor, LCD module, operating keyboard and CD file.

1. Optical System: field lens and eyepiece lens
2. Image Sensor: 2.0MP CMOS and IC board
3. LCD Module: 3.6” TFT screen, 8M flash memory, SD card slot, USB receptacle, Video cable port and DC socket
4. Operating Keyboard: Power Button, Menu Key, Mode Key, Snap Key, Ok and Direction Keys
5. CD: Driver software and Viewing software

Model	MD-20M
Image Sensor:	2.0 Mega Pixel CMOS with Resolution: 1600x1200
Picture File Size	12MP/8.0MP/5.0MP/3.0MP/2.0MP/1.3MP/0.35MP
Image Format	JPEG, AVI
Flash Memory	8M
External Memory Slot	S.D
Optical Magnification	10X
Digital Zoom	8X
LCD for preview / playback	3.6” TFT LCD with 320X240 Pixel
Language	Multi languages supported(English, Traditional Chinese, Simplified Chinese, Japanese, Spanish, German, French, Italian, Portuguese)
Power	DC5V Power Adapter
USB type	USB 2.0 full speed
TV System	PAL and NTSC

MD SERIES — MD-130/300
ELECTRONIC EYEPIECE

MD series electronic eyepiece, adopting CMOS imaging chips with resolutions of 1.3 Mega Pixels, can be applied to various typical types of Biological, Stereo, Metallurgical, Fluorescence, and Polarizing Microscopes.

FEATURES:

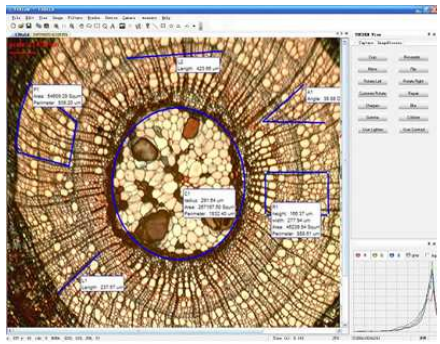
- Watch live image on your computer from your microscope. Easy to take a picture and record a video via MD software.
- Capture clear, bright images with resolution up to 1280X1024 pixels via the USB 2.0 port.
- Auto brightness and fine focus.

Model	MD-130
Total Pixel	1.3 Mega Pixel
Size of Sensor	1/2" cmos
Resolution	SXGA 1280x1024, VGA 640x480
Pixel Size	5.2 μm X 5.2 μm
Frame Rate	1280x1024(15 fps), 640x480(30 fps)
Image Format	JPG/BMP/WMV/MPG
Exposure	Manual/Auto Exposure
SNR	54 dB
Out port	USB2.0

PMD SERIES

ELECTRONIC EYEPIECE

Exclusive Adapters



Measure Software

Model	PMD-130	PMD-300	PMD-500	PMD-1000
Total Pixel	1.3 Mega Pixel	3.0 Mega Pixel	5.0 Mega Pixel	10.0 Mega Pixel
Size of Sensor	1/3" CMOS	1/2" CMOS	1/2.5" CMOS	1/2.3" CMOS
Resolution	1280H x 1024V	2048H x 1536V	2592H x 1944V	3856H x 2764V
Pixel Size	3.6 μm X 3.6 μm	3.2 μm X 3.2 μm	2.2 μm X 2.2 μm	1.67 μm X 1.67 μm
Frame Rate	1280x1024(15 fps) 640x480(30 fps)	2048x1536(11 fps) 640x480(30 fps)	2592x1944(8 fps) 640x480(30 fps)	3856x2764(3 fps) 1280x1024(25 fps)
RGB	8 bit			
Connector	C-Mount	C-Mount	C-Mount	C-Mount
Image Format	JPG/BMP/WMV/MPG			
Exposure & White Balance	Auto / Manual			
Exposure time	1ms - 0.3s			
Scan Mode	Progress			
Shutter	Electronic Rolling Shutter			
Sensitive	1.0V/Lux-S(550nm)		0.53V/Lux-S(550nm)	0.44V/Lux-S(550nm)
SNR	44 dB	43dB	40.5 dB	40.5 dB
Dynamic range	>71dB	>61dB	>60dB	>63dB
Controlling	image size, brightness, gain, exposure time, color			
Out port	USB2.0			
Operating System	Win XP, Win Vista, Win 7(32bit,64bit), Mac OS			
Measure Software	Photo snap, Video record. With measure function of the actual length/area/diameter/circumference/angle of object.			
Accessories	30mm adapter, 30.5mm adapter, 0.5X adapter			

Connecting DC To Microscope

Suitable For All Kind of Microscope

Connector Model	06DC52
Compatible caliber for DC	Max: Φ45mm
Compatible caliber for trinocular and binocular tube	Φ22.9mm~Φ39.5mm (International Standard)
Magnification	1X

PO SERIES – PO-932/933/913/183

HQ Microscope CCD Camera

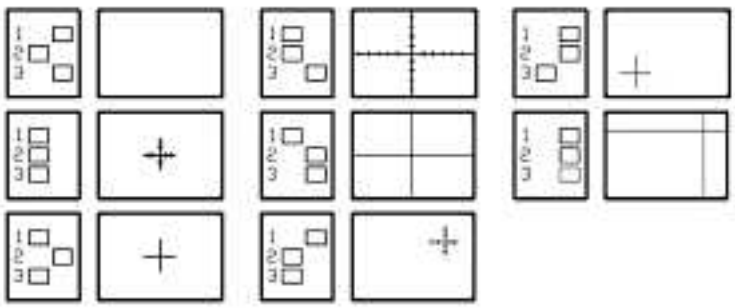
PO-932/933/183

PO-913

★High Quality Image ★Real Color ★High Stability

◎Additional USB Output for option ◎Various Cross Lines (PO-913 Series)

(Include Capture Software for PC)



PO SERIES – PO-932/933/913/183
HQ Microscope CCD Camera

Specification:

Model	PO-932	PO-933	PO-913	PO-183
TV System	PAL or NTSC			
Image Device	1/2" Exview	1/3" HAD Color IT CCD		
Effective Pixels	PAL: 752(H) x 582(V) NTSC: 768(H) x 494(V)		PAL:537(H) x 579(V) NTSC: 537(H) x 505(V)	PAL:537(H) x 597(V) NTSC:537(H) x 505(V)
Resolution	480 ~ 580 TV Lines		420 TV Lines	
Output	Composite Video 140IRE, 1.0Vp-p 75ohms Unbalanced YC Video: Y: 1.0Vp-p 75ohms Unbalanced C: 0.286Vp-p USB 2.0 (PO-932U/933U/913U only, include capture software for PC)			140IRE 1.0Vp-p 75ohms Unbalanced USB 2.0 (PO-183U only, include capture software for PC)
S/N Ratio	52dB (AGC Off)		50dB (AGC Off)	
Sync. System	Internal			
Scanning	2:1 interlace			
Functions	AE / ME, AGC On / Off, BLC On / Off, Mirror On / Off, Flickerless / Gamma 1, ATW / AWB		AE / ME, Mirror, Cross Lines(Central Fixed / Moveable, Scale On / Off, Large / Small, White / Black)	
Min. Illumination	0.3Lux (Color)		0.1Lux (F1.4 AGC On)	
Shutter Speed	1/50 ~ 1/100,000 sec			
Auto Iris Lens	DC or Video Drive		Video Drive	
Power Supply	DC10.5V ~ 15V		DC10V ~ 13.5V	DC10.5V ~ 15V
Current	Max. 140mA			Max. 90mA
Lens Mount	CS Mount			
Dimensions	43.5(W)x44(H)x61.5(D)			
Weight	Approx. 150g			Approx. 140g
Outer color	Black	Black	White	Black
Accessories	Universal Switching Power Supply, Auto Iris Plug, C Mount Adaptor and Screw driver, CS Lens Mount Cap, USB Cable, User manual			
Certificate	CE, RoHS			